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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/595,410	06/16/2000	Hu Yang	2039.007400	1569
23720	7590 04/23/2004		EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C.			MULLIS, JEFFREY C	
HOUSTON,	MOND, SUITE 1100 TX 77042	. 1100	ART UNIT	PAPER NUMBER
,			1711	
			DATE MAILED: 04/23/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/595,410	YANG ET AL.	
Office Action Summary		Examiner	Art Unit	
	·	Jeffrey C. Mullis	1711	
	The MAILING DATE of this communication			iress
Period fo		• •	•	
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THIS COMMUNICATION INTO THE COMMUNICATION IN THIS COMMUNICATION IN THIS	ON. FR 1.136(a). In no event, however, mn. a reply within the statutory minimum eriod will apply and will expire SIX (6 statute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).	
Status			•	
1)⊠	Responsive to communication(s) filed on	03 February 2004.		
2a)[☐	This action is FINAL . 2b)⊠	This action is non-final.		
3)[Since this application is in condition for all	owance except for formal	matters, prosecution as to the	merits is
	closed in accordance with the practice und	der <i>Ex part</i> e <i>Quayl</i> e, 1935	C.D. 11, 453 O.G. 213.	
Disposit	ion of Claims			
4)⊠	Claim(s) <u>1-3,7-23,26-44,46-51,54-62 and</u>	65-78 is/are pending in the	e application.	
,—	4a) Of the above claim(s) is/are with	• •	• •	
5)	Claim(s) <u>59</u> is/are allowed.			
6)⊠	Claim(s) 1-4,12-23,31-44,46-51,60-62 and	<u>/ 65-71</u> is/are rejected.		
7)⊠	Claim(s) <u>7-11,26-30,54-58 and 72-78</u> is/ar	e objected to.		
8)□	Claim(s) are subject to restriction a	nd/or election requirement	t.	
Applicat	ion Papers			
9)[The specification is objected to by the Exa	miner.		
	The drawing(s) filed on is/are: a)		d to by the Examiner.	
	Applicant may not request that any objection to		•	
	Replacement drawing sheet(s) including the co	prrection is required if the draw	wing(s) is objected to. See 37 CFI	R 1.121(d).
11)	The oath or declaration is objected to by the	e Examiner. Note the atta	ched Office Action or form PT0	D-152.
Priority ι	ınder 35 U.S.C. § 119			
	Acknowledgment is made of a claim for for ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents.		, , , ,	
	2. Certified copies of the priority docum			
	3. Copies of the certified copies of the	·	een received in this National S	Stage
* 5	application from the International Bu See the attached detailed Office action for a	· · · · · · · · · · · · · · · · · · ·	not received	
	os are attached detailed Office action for a	nation the certified copies	not received.	
Attachma-	We)			•
Attachmen 1) ⊠ Notic	e of References Cited (PTO-892)	4) ☐ intervi	iew Summary (PTO-413)	
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948) Paper	No(s)/Mail Date	
	nation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date <u>803</u> .		e of Informal Patent Application (PTO- :	152)

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All remaining rejections and/or objections follow.

Claims 4, 23, 51 and 62 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

The species of the above claims lack antecedent basis in any preceding claim and are therefore unclear.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(e) The invention was described in (1) an application for patent, published under Section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which

Art Unit 1711 the invention was made.

Claims 60-61, 68, 69, 70 and 71 are rejected under 35 U.S.C. § 102(e) as being anticipated by Gauthier et al. (U.S. 6,313,241).

Gauthier et al. disclose numerous examples of ethylene/vinyl cyclohexene copolymers in their Examples. Note that films were co-extruded with the polymers in column 24 lines 24-25 to laminate the polymers with materials such as inherently oxygen barrier polymers such as ethylene vinyl alcohol in Example 37.

Claims 1-3, 12-22, 31-44, 46-51, 60-62 and 65-71 are rejected under 35 U.S.C. \S 103(a) as being unpatentable over Gauthier et al. (USP 6,143,197).

Gauthier in Example 1 and Example 2 disclose production of ethylene/vinyl cyclohexene films. The vinyl cyclohexene polymers may be combined with barrier polymers column 7 line 35. The polymers are disclosed to be oxygen scavenging and may contain a metal catalyst at column 8 lines 10-16. Photoinitiators may be added such as those of applicants at column 6 lines 1-30.

There are no specific examples containing barrier polymer as well as applicants' specific oxygen scavenging polymer and photoinitiator although Gauthier et al. discloses that all three may be used in combination.

Therefore it would have been obvious to a practitioner having ordinary skill in the art at the time of the invention to utilize applicants' embodiment of specific oxygen scavenging

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polymer, barrier polymer and catalyst as well as photoinitiator in the expectation of adequate results absent any showing of surprising or unexpected results.

Claims 4, 23, 51 and 62 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Matthews et al. (U.S. 6,254,804).

Matthews et al. disclose compositions containing polymers with barrier properties such as polyethylene terephthalate (note the paragraph bridging columns 10 and 11) in combination with polymers such as oxygen scavenging polymers at column 7 lines 9-15 which are polyesters derived from 3-cyclohexene-1,1-dimethanol. Although no examples exist of applicants' combination of materials, patentees disclose that scavenging polymers including those of applicants may be combined with polymers such as barrier polymers and therefore it would have been obvious to a practitioner having ordinary skill in the art at the time of the invention to choose such an embodiment from Matthews in the expectation of adequate results absent any showing of surprising or unexpected results.

Claims 4, 23, 51 and 62 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Ching et al. (U.S. 6,454,965).

Ching et al. discloses the production of a polyester formed from 3-cyclohexene-1,1-dimethanol in Example 4. The composition may be a multilayered one containing layers of materials such as

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those containing oxygen barrier polymers such as polyethylene terephthalate at column 3 lines 38-47. Other oxygen barrier polymers such as ethylene vinyl alcohol may also be used at column 4 lines 40-45.

There are no specific examples of combinations of materials of applicants' claims although Ching et al. discloses that combinations of such materials may be used. Therefore it would have been obvious to a practitioner having ordinary skill in the art at the time of the invention to choose applicants' embodiments from Ching et al. in the expectation of adequate results absent any showing of surprising or unexpected results.

The terminal disclaimer filed on 2-3-04 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 6,525,123 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claims 7-11, 26-30, 54-58 and 72-78 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

This Office action is not being made FINAL.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Mullis whose telephone number is (571) 272-1075. The examiner

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can normally be reached on Monday-Friday from 9:30 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on (571) 272-1078. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-0994.

J. Mullis:cdc

April 20, 2004

